

**Title:** JP2123114A2: PRODUCTION OF UNSATURATED RANDOM COPOLYMER

**Derwent Title:** Unsatd. random copolymers prodn. used for rubber rolls, belts, etc. - by polymerising  $\alpha$ -olefin(s)! and non-conjugated diene! in presence of Ziegler-Natta catalyst [Derwent Record]

**Country:** JP Japan

**Kind:** A (See also: JP2682076B2 )

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**Application Number:** JP1988000275232

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**Abstract:** PURPOSE: To obtain the title copolymer capable of providing a cured rubber having low hardness and small compressive set by polymerizing  $\alpha$ -olefin and non-conjugated diene compound having a specific structure at a specific ratio using a Ziegler-Natta catalyst.

CONSTITUTION: (A) 4-20C  $\alpha$ -olefin (preferably hexene-1) is polymerized with (B) a non-conjugated diene compound (preferably 7-methyl-1,6-octadiene) expressed by the formula (n is 2-10; R1 is 1-8C alkyl; R2 and R3 are H or 1-8C alkyl) used so that content of the component B is 1-40mol%, in the presence of a Ziegler-Natta catalyst to provide the aimed copolymer. The polymerization temperature is preferably 20-60°C and polymerization pressure is ordinarily 0-20 atomic pressure. Furthermore, triethylaluminum or tributyl aluminum is preferably used as an organoaluminum compound constituting Ziegler-Natta catalyst.

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